Program Overview

October 14, Monday	16:00 – 17:00	Session #1 Decarbonization and Climate Change	Session #3 Renewable energies
	17:00 – 18:00	Session #2 Decarbonization and Climate Change	Session #4 Renewable energies
October 15, Tuesday	16:00 – 17:00	Session #5 Decarbonization and Climate Change	Session #7 Renewable energies
	17:00 – 18:00	Session #6 Sustainable Urban Mobility	Session #8 Renewable energies

CIEEMAT 2024

VIII Ibero-American Congress on Entrepreneurship, Energy, Environment, and Technology

Detailed Program

14 October, Monday

Session #1 – Decarbonization and Climate Change	Room 513 Chair: Jaqueline Vieira
16:00-17:00	Energy Transition: The challenges in decarbonizing oil & gas production in Brazil **Milton Simas Gonçalves Torres**, Gustavo Castro Ribeiro, Hércules Souza de Medeiros and Luiz Philipe Martinez Marins
	Sustainable Innovation Evaluation in Startups from the Centelha II Program in Mato Grosso do Sul **Fabrício Privat** and Daduí Guerrieri
	Transforming Confiscated TV Boxes into Modbus TCP Servers for Educational Laboratories **Frederico Duarte Fagundes** and Marco Aurélio Rodrigues de Magalhães
	A systematic review and bibliometric analysis of life cycle assessment in public procurement Laíce Scotelano, **André Luiz Trajano**, Augusto Reis, Artur Jorge Gonçalves and Ronney Boloy

Session #2 – Decarbonization and Climate Change	Room 513 Chair: Laene Soares
17:00-18:00	Utilization of Excess Energy in Photovoltaic Plants Caused by Clipping: Efficiency Comparison between Battery and Green Hydrogen Storage Solutions Beatriz Horn, Orlando Soares and **Paulo Brito**
	Metal phosphates electrocatalysts applied for hydrogen evolution reaction **Jose Antonio Rodrigues**, João Victor Moraes, Thomaz Barros, Suresh Rajendran and Ana Lucia de Barros
	Hydrothermal synthesis of copper cobalt oxide nanosheets for efficient electrocatalytic hydrogen generation **Sasikumar Yesudass**, Suresh Babu Rajendran, Jose Antonio Rodrigues and Ana Lucia de Barros
	Study of Factors Influencing Biogas Generation From Uasb Reactor in the Beverage Industry **Ysabella de Lima** and Lia Teixeira

Session #3 – Renewable energies	Room 515 Chair: Daniel Penalva Santos
16:00-17:00	Transitioning Santiago Island to a Renewable Energy Based system Cintia Garcia, Luís Lopes, Gabriel Roma and **Ângela Ferreira**
	A Context-Aware Approach to Data Exchange in the Energy Sector **Matheus Jenevain**, Mario Dantas, Laís Berno and Milena Pinto
	Economic Viability Analysis of Photovoltaic Systems in the Residential Sector in Brazil and Portugal Gabriel Marques, Beatriz Horn, **Thiago Americano Do Brasil** and Orlando Soares
	The Wind Energy Market and the Institutional Influences of Non-Market Strategy in the Northeast Region – A Case Study on Enel Green Power **Ricardo Nascimento Ferreira** and Paula Cristina Afonso dos Ferreira

Session #4 – Renewable energies	Room 515 Chair: Yasmim Chaves
17:00-18:00	Facile electro-co-polymerization of polyaniline- poly(3,4-ethylenedioxythiophene) on flexible carbon fiber electrodes for supercapacitor applications **Alberto Matheus da Silva Rangel**, Monique Pacheco Do Amaral, Vernan da Silva Lima, Leandro Samyn, Rejendran Suresh Babu, Diego Barreto Haddad and Ana Lucia de Barros
	Biogas Purification from Landfill Gas by Adsorption **Janks Karbdala Leal de Paiva**, José António Correia Silva and Ronney Arismel Mancebo Boloy
	Evaluation of an ARIMA model for forecasting distributed generation installed power **Tiago A. Silva** and Daduí C. Guerrieri.
	Evaluation of Photovoltaic Performance in DSSCs Through Fe2O3 Doping in TiO2 Electrodes Sensitized by Organic Dyes **Higor Oliveira da Cunha**, Arcano Matheus Bragança Leite, Rajendran Suresh Babu, Diego Barreto Haddad and Ana Lucia Ferreira de Barros

15 October, Tuesday

Session #5 – Decarbonization and Climate Change	**Room 513** **Chair: Laene soares**
16:00-17:00	Systematic Literature Review of Low-Carbon Hydrogen: Encompassing ESSG Perspectives Fabiana de Oliveira Ramos, **Daniel De Cerqueira Lima E Penalva Santos** and Ronney Arismel Mancebo Boloy
	Analysis of Low-Carbon Hydrogen Production in Landfills **Brenda dos Santos Costa**, Laene Oliveira Soares, Daniel De Cerqueira, Lima e Penalva Santos, Anna Paula Bourdon and Ronney Arismel Mancebo Boloy
	Synthesis of Nanostructured Perovskite for Intermediate-temperature Solid Oxide Fuel Cell **Nivaldo José da Silva**, Clara Lechtman Gazel and Marcello Dumont
	Municipal Solid Waste Biorefineries: A Systematic Literature Review **Yasmim Aparecida de Oliveira Chaves**, Maria Margarida B. P. Gonçalves, Pedro Romano and Ronney Arismel Mancebo Boloy

Session #6 – Sustainable Urban Mobility	**Room 513** **Chair: Danielle Rodrigues**
17:00-18:00	Eco-Efficiency and Economic Assessment of Electric Vehicle Technologies **Laene Oliveira Soares**, José Ricardo Sodré, Luis Hernández-Callejo and Ronney Boloy
	Carbon policies and electric vehicles: a systematic review of the main strategies **Eyko Medeiros Rios**, Wallice Medeiros de Souza, Pedro Henrique González Silva and Vanessa de Almeida Guimarães
	Analysis of the Integration of Sustainability Education in the Engineering Curriculum at a Federal Educational Institution in Brazil **Ezequiel Oliveira**, Pedro González and Vanessa de Almeida Guimarães
	Incorporating Sustainability in Engineering Education: A Literature Review **Ezequiel Oliveira**, Pedro González and Vanessa de Almeida Guimarães

Session #7 – Renewable energies	**Room 515** **Chair: Carlos Eduardo Corrêa**
16:00-17:00	Supply Chain Management of Photovoltaic Modules: State of the Art Through Prisma Margarete Heleno, **Udneli Rodrigues**, Gisele Vieira, Anna Paula Bourdon and Ronney Arismel
	Comparative Analysis on the Energy Markets of Portugal and Brazil Danilo S. Saes, João Pedro L. Bressiani and **Rubipiara C. Fernandes**.
	A comparison review of levelized cost of hydrogen produced from renewable sources **Leonardo Kattah**, Rubipiara Cavalcante Fernandes and Edison Antonio Cardoso Aranha Neto
	Life cycle assessment in energy recovery from municipal solid waste: A bibliometric analysis and systematic review **Gardênia Mendes de Assunção**, Doralice Chagas Tavares and Ronney Arismel Mancebo Boloy

Session #8 – Renewable energies	**Room 515** **Chair: Yasmim Chaves**
17:00-18:00	Enhanced MPPT based on Zebra Optimization Algorithm for Control of a Partially Shaded Photovoltaic System Abdelghani Draou, Ahmed Saidi, Abdesselam Bouiri, Abderrahim Zemmit and **Antonio Marcos de Oliveira Siqueira**
	Comparative Analysis of Low-Carbon Hydrogen Industrial Plants, Based on Environmental Impact Studies **Paulo Marcos Cabral Junior**, Paulo Sérgio Rosa Fernandes and Guilherme Amaral Do Prado Campos
	Biomass feeding systems – are we ready to run cellulosic ethanol plants? **Carlos E. F. Corrêa**, Daniel De Cerqueira Lima e Penalva Santos, José V. Bomtempo, Flavia C. Alves, Cristina G. Souza and Ronney A. M. Boloy